

Arief S. Kartasasmita

7 Bukit Dago Utara III Street

Bandung 40135

Indonesia

e-mail : a.kartasasmita@unpad.ac.id

Place/birth date : Bandung, July 27th, 1970

Occupation : Teaching Faculty at Vitreo Retina Unit, Dept. Ophthalmology Padjadjaran University
/Cicendo Eye Hospital

EDUCATION

Juntendo University School of Medicine, Tokyo Japan
PhD Program in Genetic Ophthalmology, 2011

Universitas Padjadjaran/Cicendo Eye Hospital, Bandung Indonesia
Residency Program in Ophthalmology, 2004

Universitas Padjadjaran, Bandung Indonesia
Master of Science in Ophthalmology, 2007

Universitas Padjadjaran, Bandung Indonesia
M.D. in Medicine, 1996

Clinical Fellowship in Vitreoretina, Nijmegen Eye Institute, Nijmegen (Academisch Nijmegen Ziekenhuis,/Radbout University The Netherland, 2004 – 2005

AWARDS

- **Second Winner, Best Resident Paper Contest on Experimental Study, Indonesian Ophthalmologist Association, 2002**
- **Second Winner, Best Resident Paper Contest on Observational Study, Indonesian Ophthalmologist Association, 2003**
- **Fellowship Award, European Society of Cataract and Refractive Surgeon, 2003**
- **Clinical Fellowship Award, International Council of Ophthalmology, 2004**
- **Asia Pacific Academy Ophthalmology LDP award, 2013**

TEACHING EXPERIENCE

At the Department Ophthalmology Universitas Padjadjaran/ Cicendo Eye Hospital, Bandung Indonesia

Lecturer – “Ophthalmology”, 2002

- Developed syllabus and overall course structure, and administered all grades.

Teaching Assistant – to Professor Gantira Natadisastra in “Ophthalmology Examination.”

- 2003 - 2006 Collaborated on curriculum and exam development, met with students upon request, and graded all written work, including final exam papers.

Associate Professor in Universitas Padjadjaran - “Vitreoretina” 2006 – 2018

Professor in Ophthalmology, Universitas Padjadjaran 2018-present

COURSE AND FELLOWSHIP

Course on Multimedia on Medical Education, Bandung Institute of Technology, Bandung Indonesia, 1999

Short Course on Endophthalmitis Management (Basic), Indonesian Ophthalmologist Association, Jogjakarta Indonesia, 2003

Short Course on Endophthalmitis Management (Advance), Indonesian Ophthalmologist Association, Jogjakarta Indonesia, 2003

Short Course on Retinopathy of Prematurity, Indonesian Ophthalmologist Association, Jogjakarta Indonesia, 2003

Short Course on Diabetic Retinopathy, American Academy Annual Meeting, Anaheim California, USA, 2003

Short Course on Macular Degeneration, American Academy Annual Meeting, Anaheim California, USA, 2003

Short Course on Lens of choice in Vitreous Surgery, American Academy Annual Meeting, Anaheim California, USA, 2003

Short Course on Radial Optic Neurotomy, Asia Pacific Ophthalmologist Association Meeting, Bangkok, Thailand, 2003

Short Course on Endoscopy in Vitreoretinal Surgery, Asia Pacific Ophthalmologist Association Meeting, Bangkok, Thailand, 2003

Course and Wet lab on Basic and Advance Vitreoretinal Surgery, EVRS, Marburg, Germany, 2004

Clinical Fellowship Program in Vitreoretina, Cicendo Eye Hospital, Bandung Indonesia, February 2006 – February 2007.

Short Fellowship on Retinopathy of Prematurity Management, Queen Sirikit Children Hospital, Bangkok, Thailand, 2006

Course and Fellowship on Genetic Eye Diseases, Juntendo University, Tokyo, Japan, 2007

Short Course on Electrophysiology on Vision, Singapore National Eye Center, Singapore, February 2008

Human Mutation Detection Training Course, Human Genome Organization (HUGO), Erasmus Medical Central, Rotterdam, The Netherland, October 2008

RELATED EXPERIENCE

Penelitian dan PKM FKUP Researcher, Health Research Unit Faculty of Medicine Universitas Padjadjaran, Bandung Indonesia, 1997 – 2007
Investigator, including statistical analysis

Researcher, Cicendo, Eye Research Center, Bandung Indonesia, 2007 – present
Coordinator, Investigator including statistical analysis

Vitreoretinal Consultant, Cicendo Eye Hospital/Department Ophthalmology Faculty of Medicine Universitas Padjadjaran – Certification from Indonesian Ophthalmology Colegium - 2008

Editor, International Journal of Health Sciences, Vitreoretina, 2010 – 2014

Editor, International Journal of Retina, 2017 – present

Editor, Ophthalmologica Indonesiana, 2016 – present

Indonesian College of Ophthalmology, 2006 – present

Head, Medical Information Resources Center, Faculty of Medicine Universitas Padjadjaran, 2001 – 2007

Executive Secretary, Faculty of Medicine Universitas Padjadjaran, 2007 – 2009

Ophthalmology Residency Program Secretary, Faculty of Medicine Universitas Padjadjaran, 2009 – 2012

Ophthalmology Residency Program Director, Faculty of Medicine Universitas Padjadjaran, 2012 – 2013

Vice Dean, Faculty Of Medicine Universitas Padjadjaran, 2014 – 2015

Dean, Faculty Of Medicine Universitas Padjadjaran, 2015 – 2016

Vice Rector, Finance and Resources Affairs Universitas Padjadjaran, 2015 – 2020

Vice Rector, Academic and Student Affair, Universitas Padjadjaran, 2020 – Present

PUBLICATIONS AND PAPERS

- **“Tele-diagnostic of External Eye Disease: The Comparison of Biomicroscopy and Tele-biomicroscopy”**
Paper presented at the International Telemedicine Association, Luxemburg
▪ 2001
- **“Using Microwave Transmitted Image in Diagnosing External Eye Disease”**
Paper presented at the Indonesian Ophthalmologist Annual Meeting, Bandung, Indonesia □ 2002.
- **“The Correlation of Nucleus Opacity and Phako Time in Phaco emulsification Surgery”**
Paper presented at The SERI-ARVO Annual Meeting, Singapore □ 2002
- **“Computer Modified ETDRS in Visual Acuity Examination”**
Paper presented at the Indonesian Ophthalmologist Annual Meeting, Jogjakarta, Indonesia, 2003.
- **“Application of e-health in Ophthalmology”**
Paper presented at the International Conference on Biomedical Engineering, Institut Teknologi Bandung, Bandung, Indonesia, 2006.
- **“Anti VEGF Therapy”** in Indonesian Vitreo Retina Magazine, Vol. 1, No. 2, 2006
- **“OCT in vitreoretinal perspective”** in Indonesian Vitreo Retina Magazine, Vol 2, No. 3, 2007
- **“The efectivity of NaDiclofenac 0,1% as an adjuvant to combination of tropicamide and fenilefrine as pupil dilating agent on retinopathy diabetic patient”,** (unpublished)
- **“Proliverative vitreoretinopathy as a Complication on Rhegmatogenous Retinal Detachment“** in Indonesian Vitreoretinal Magazine, Vol II No. 6, 2007
- **Co-author: ”Complete and Early Vitrectomy for Endophthalmitis”,** in Indonesian Vitreoretinal Magazine, Vol II No. 6, 2007
- **“Posterior Segment Trauma Management with or without IOFB”** Paper presented in Indonesian Ophthalmology Association Meeting (Joint Meeting with Singapore Ophthalmology Association), Makasar, 2008
- **Diabetic Retinopathy; Operate or not to Operate”** paper presented as Invited Speaker on Asia Pacific Academy of Ophthalmology (APAO) Congress, Bali, Indonesia 2009
- **“Rhanibizumab as a Treatment modality for PDR”** Paper presented in SNEC-Cicendo Vitreoretinal Joint Meeting, Bandung, 2009
- **Kartasmita, A. et al. “A novel nonsense mutation in rhodopsin gene in two Indonesian families with autosomal recessive retinitis pigmentosa”.** *Ophthalmic Genet* 32, 57-63 (2011)”
- **Wss. Gilbert., Kartasmita Arief., Georgalas., Gotzaridis.,** "Learning curve of sutureless transconjunctival 20-gauge vitrectomy" *Clinical Ophthalmology*. 2014;8 1355–1359

- H.S Nusa., Astuti W., Kartasasmita AS., et al., “Characterization of Optical and Structure Properties of Polydimethylsiloxanes” *Material Science Forum.*, 2015 Vol: 827 pp 99-104
- Marsha Rayfa Pintary, Arief S. Kartasasmita, - Juliati.,” Characteristics of Patient with Proliferative Diabetic Retinopathy Underwent Anti-Vascular Endothelial Growth Factors Injection in Cicendo Eye Hospital, Bandung in January–December 2013”, *Altea Medical Journal.*, 2016;Vol 3 No. 2
- Kartasasmita AS, Takarai S, Switania A, Enus S. “Efficacy of single bevacizumab injection as adjuvant therapy to laser photocoagulation in macular edema secondary to branch retinal vein occlusion.” *Clinical Ophthalmology (Auckland, NZ)*. 2016;10:2135-2140. doi:10.2147/OPHTH.S116745.
- Kartasasmita A, Sastradiwirja RP, Virgana R, Iskandar E, Sovani I, Panggabean D., “Anatomical Success of Combined Scleral Buckle and Pneumatic Retinopexy in Primary Retinal Detachment Surgery.,” *Journal of Retinal Vitreous* 2016;24:293-296
- Kartasasmita A., Mona S., Iskandar E, Sovani I., Panggabean D., “Macular ischemia after intravitreal amikacin on patient with intraocular foreign body” . *GMS Ophthalmology Cases* 2017, Vol. 7, 2017
- A Kartasasmita, WP Muntur, S Enus, E Iskandar, “Rapid resolution of toxoplasma chorioretinitis treatment using quadruple therapy” *Clinical Ophthalmology (Auckland, NZ)*, 2017,11, 2133
- “AM Ichsan, E Iskandar, R Virgana, A Kartasasmita, HS Muhiddin, Frequency of Retinal Redetachment Based on the Primary Reattachment Treatment and Intraocular Tamponade”, *Nusantara Medical Science Journal*, 2017, 2 (1), 6-13
- AS Kartasasmita, W Arsih, A Switania, B Setiohadji, “The effectiveness of continuous intravitreal adrenaline as mydriatic adjuvant on pars plana vitrectomy in diabetic patient, a randomized clinical trial” , *Revista Mexicana de Oftalmología*, 2017, 91 (5), 229-234
- AS Kartasasmita, I Sovani, B Setyohadji, F Karfiati, A Prahasta “Effectiveness of Sodium Diclofenac Addition to Pupil Dilatation Agent on Diabetic Retinopathy Patients” *Majalah Kedokteran Bandung-Mkb-Bandung Medical Journal*, 2017, 49 (3), 199-207
- AS Kartasasmita, O Harley, I Irfani, E Iskandar “Evaluation of the inner-retinal cells survival after low duration laser treatment measured by electroretinogram in patient with diabetic retinopathy” *Journal of Eye and Ophthalmology*, 2017, 4 (1), 2
- “Posterior Segment Trauma Management” paper presented as Invited Speaker on European Retina Society (Euretina) Meeting, Barcelona, Spain, 2017
- M Metita, I Sovani, A Kartasasmita, E Iskandar, R Virgana, “Surgical Approach In Vitreous Hemorrhage” *International Journal of Retina*, 2017 1 (1)
- M Purnama, E Iskandar, R Virgana, G Ihsan, A Kartasasmita, “Giant Retinal Tear Management at Referral Eye Hospital”, *International Journal of Retina* 2017, 1 (1),

- “Scleral Buckle in Vitrectomy Era” paper presented as Invited Speaker on Asia Pacific Vitreoretinal Society (APVRS) Meeting, Kuala Lumpur, Malaysia, 2017
- A Kartasasmita, W Kusdiono, R Virgana, S Boesorie , “In Vivo Emulsification Analysis of 1000 cs and 5000 cs Silicone Oil after Rhegmatogenous Retinal Detachment Vitrectomy Surgery” *Open Journal of Ophthalmology* 2017, 7 (04), 231
- I Irfani, AS Kartasasmita, “Pediatric Retinal Detachment in Indonesia: Clinical Characteristics, Risk Factors, and Treatment Outcomes, *Open Journal of Ophthalmology* ,2017, 7 (04), 249
- R Amin, F Novadianaz, Y Yuwono, H Permana, AS Kartasasmita, The Relationships between SORD-888G> C Gene Polymorphism and Diabetic Retinopathy in a South Sumatran Malay Population, *Journal of Research in Medical and Dental Science*, 2017, 5 (3), 11-15
- I Irfani, F Feriyanto, P Oktarima, A Kartasasmita, “Visual Acuity Improvement in Continuous vs Divided Occlusion in Anisometropic Amblyopia” *The Open Ophthalmology Journal*, 2018, 12, 1
- Kartasasmita, A.S., Harley, O., Gustianingsih, M., Iskandar, E. “Complication of manual small incision cataract surgery and phacoemulsification in previously vitrectomized eyes with silicone oil tamponade”, *International Eye Science*, 2018, 18 (2), 203-206
- Kartasasmita A, Harley O. Evaluation of The Timing Of Intravitreal Bevacizumab Injection As Adjuvant Therapy To Panretinal Photocoagulation In Patients With Diabetic Macular Edema Secondary To Diabetic Retinopathy. *Clin Ophthalmol*. 2019;13:1921–1926. Published 2019 Sep 26. doi:10.2147/OPTH.S216790
- Setiohadji B, Irfani I, Rifada M, Virgana R, Kartasasmita AS. The Superoxide Dismutase Mimetic TEMPOL and Its Effect on Retinal Ganglion Cells in Experimental Methanol-Intoxicated Rats. *Ophthalmol Ther*. 2018;7(1):167–172. doi:10.1007/s40123-018-0132-z
- Sasongko MB, Wardhana FS, Febryanto GA, Agni AN, Supanji S, Indrayanti SR, Widayanti TW, Widyaputri F, Widhasari IA, Lestari YD, Adriono GA, Sovani I, Kartasasmita AS. The estimated healthcare cost of diabetic retinopathy in Indonesia and its projection for 2025. *Br J Ophthalmol*. 2019 Jul 8;bjophthalmol-2019-313997. doi: 10.1136/bjophthalmol-2019-313997. [Epub ahead of print]. PMID: 31285276

ONGOING RESEARCH

- **Diabetic Retinopathy Genetic Risk Factor Analysis on VEGF, COX-1 and TGF expression on Macular Edema 2014 - 2019**
- **Diabetic Retinopathy Epidemiology Study Funded by Helen Keeler International 2015 -2019**
- **A randomized double-masked, phase III study assessing ranibizumab intravitreal injections versus sham control in patients with visual impairment due to macular edema (ME) secondary to central retinal vein occlusion (CRVO) Funded by Novartis International 2014-2019**

LANGUAGES

Indonesian – native language; **English; Japanese**

MEMBERSHIPS

Indonesian Ophthalmologist Association
Indonesian Vitreoretina Society – **President (2016 – present)**
Indonesian Society Electrophysiology on Vision – **President (2019 – present)**
European Vitreoretina Society
International Vitreoretina Foundation
Human Genome Organization